

Proposed Removal of Existing 4 Storey Link Bridge Which Spans Saffron Hill & Currently Links 17 Charterhouse Street Extension & 19 Charterhouse Street.

whitbybird

Demolition Statement

date: 09 August 2007

Description of Existing Structure:

The bridge across Saffron Hill was installed to provide a link between No. 17 Charterhouse Street and No. 19 Charterhouse Street.

The link bridge is formed in structural mild steel, of a mix of standard British Standard and fabricated flat plate sections. The bridge consists of a central steel torsion tube, with a vertical/horizontal pinned connection at either end. The connection to the 17 Charterhouse St structure is also a full torsion connection, transmitting the torsion forces to the edge beam of the main floor plate. The connection to the 19 Charterhouse St structure is sliding within the direction of the span of the bridge, to ensure that no stresses can be locked into the bridge from differential sway movements of the 2 buildings or from thermal movements of the bridge.

The bridge does not provide any form of stability restraint nor carry any vertical or horizontal loadings of the main structures of either No. 17 or 19 Charterhouse Street. On removal of the bridge link, the main structures of both 17 & 19 Charterhouse Street will remain independently stable.

Refer to the appendix for as-built drawings of the bridge structure, and photographs of the bridge structure during installation.

Indicative Method of Demolition:

It was anticipated during design that the bridge will be removed in a reverse sequence to the installation. A protection scaffolding and working gantry was erected over Saffron Hill during the bridge installation, and that a similar arrangement of access and protection will be adopted for the demolition. Refer to the following photograph.



Indicative Sequence:

- Erect protection/access gantry and scaffolding.
 - Carry-out soft strip, capping services and making good all finishes in accordance with the drawings and specifications.
 - Remove the bridge cladding. The cladding was designed to be hung from the top level of the bridge, and therefore is likely to need to be removed from the lowest bridge level upwards. Reference should be made to the as-built cladding drawings, details, and specifications.
 - Remove the bridge structure, from the highest bridge level downwards. The connection of the bridge should be released at either end, providing temporary support for the bridge levels as required prior to lifting. Vehicle and crainage access permitting, it should be possible to remove each bridge level in one lift, although the demolition contractor must assess the lifts and ensure there will be enough room for maneuvering the bridge section to road level. Alternatively, each bridge level could be cut in to smaller sections with temporary supports as required.
 - Make good the main structure of both No. 17 & No. 19 Charterhouse street, maintaining the appropriate level of fire protection and durability to the main structural elements.
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Appendix A

Structural Final Issue Drawings

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Appendix B

Photographs During Bridge Installation

